Dell™ OptiPlex™ E1 Managed PC Systems

DOCUMENTATION UPDATE

www.dell.com

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:

NOTE: A NOTE indicates important information that helps you make better use of your computer system.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem.

Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

December 1998 P/N 1271E Rev. A02

Dell™ OptiPlex™ E1 Managed PC Systems Documentation Update

This document updates information provided in your online *Dell OptiPlex E1 Managed PC System User's Guide* and in your *Dell OptiPlex E1 Managed PC Reference and Installation Guide*. It describes the following features:

- Microsoft® Advanced Technology Attachment Packet Interface (ATAPI) driver, which replaces the enhanced integrated drive electronics (EIDE) bus-mastering driver
- New microprocessor options
- New online documentation
- New System Setup options
- New system and setup password features

Microsoft-Updated ATAPI Driver

The Microsoft-updated ATAPI driver (provided for the Microsoft Windows NT® 4.0 operating system) offers a performance improvement by off-loading certain functions from the system processor during multithreaded operations. Dell has installed the Microsoft-updated ATAPI driver for your operating system, and it is operative when you receive your computer. No further installation or configuration is needed.

NOTE: If Windows NT 4.0 is reinstalled, the Microsoft-updated ATAPI drivers must also be reinstalled.

The driver for Windows NT 4.0 has also been copied to your hard-disk drive in diskette-image form. If you need to reinstall or remove this driver, you can do so as described in the following subsections.

Reinstalling the Windows NT 4.0 Microsoft-Updated ATAPI Driver

NOTE: To install the Microsoft-updated ATAPI driver for Windows NT 4.0, you must have a mouse connected to the system and Windows NT 4.0 must already be installed on the hard-disk drive connected to the primary EIDE channel.

To reinstall the Microsoft-updated ATAPI driver for Windows NT 4.0, perform the following steps:

1. If you have not already done so, use the Program Diskette Maker to make a diskette copy of the Microsoft-updated ATAPI driver diskette image on your hard-disk drive.

   The Program Diskette Maker is available through the **Dell Accessories** program folder. For more information, refer to the online help provided in the Program Diskette Maker.

2. Start the Windows NT operating system. If you are already running Windows NT, close any open documents or application programs.

3. Insert the Microsoft-updated ATAPI driver diskette into drive A.

4. Click the **Start** button.

5. Click **Run**, type `a:\setup.bat` in the **Run** window, and then click **OK**.

   A black screen will quickly appear and disappear, which indicates that the driver file has been loaded. Setup automatically saves the existing **atapi.sys** driver as **atapi.000** and loads the new driver into the **system32\drivers** subdirectory in the Windows NT directory.

6. Remove the diskette from drive A. Then restart the computer.

NOTE: To enable or disable direct memory access (DMA) while using the Microsoft-updated ATAPI driver, run ***dmacheck.exe*** *from* ***\support\utils\i386*** *on the* Microsoft Windows NT Service Pack 3 *CD.*

Removing the Windows NT 4.0 Microsoft-Updated ATAPI Driver

To remove the Microsoft-updated ATAPI driver, perform the following steps:

1. Start the Windows NT operating system. If you are already running Windows NT, close any open documents or application programs.

2. Use Explorer to open the **system32\drivers** subdirectory in the Windows NT directory.

3. Rename the existing **atapi.sys** file to **atapi.bak**.

4. Rename the **atapi.000** file to **atapi.sys**.

5. Restart the computer.

Additional Microprocessor Options

The Dell OptiPlex E1 Managed PC system now supports Intel® Celeron™ microprocessors with internal processing speeds of 300, 333, 366, and 400 megahertz (MHz). The external processing speed for these microprocessors is 66 MHz.

Accessing Online Documentation

In addition to the online *System User's Guide*, your system also includes online versions of the *Reference and Installation Guide* and the *Diagnostics and Troubleshooting Guide* in portable document format (PDF) files on the hard-disk drive. These documents are located in the **Dell Accessories** folder.

System Setup Categories

The following subsections provide updated information about some of the categories listed on the System Setup screen.

Hard-Disk Drive Sequence

Hard-Disk Drive Sequence lists installed adapter cards and devices in the order they will be initialized. The first hard-disk drive in the list becomes the bootable drive C.

Boot Sequence

Boot Sequence enables you to set the order of the devices from which the system attempts to boot.

The term *boot* refers to the system's start-up procedure. When turned on, the system "bootstraps" itself into an operational state by loading into memory a small program, which in turn loads the necessary operating system. **Boot Sequence** tells the system where to look for the files that it needs to load.

To set the boot device order, press <Enter> to access the field's pop-up options menu. Use the up- and down-arrow keys to move through the list of devices. Press <Enter> to enable or disable a device (enabled devices appear with a check mark). Press plus (+) or minus (–) to move a selected device up or down the list. The following sections detail typical devices.

Diskette Drive A:

Selecting **Diskette Drive A:** as the first device causes the system to try booting from drive A first. If the system finds a diskette that is not bootable in the drive or finds a problem with the drive itself, it displays an error message. If it does not find a diskette in the drive, the system tries to boot from the next device in the boot sequence list.

Hard-Disk Drive

Selecting **Hard-Disk Drive** causes the system to attempt to boot first from the hard-disk drive and then from the next device in the boot sequence list.

IDE CD-ROM Reader

Selecting **IDE CD-ROM Reader** causes the system to try booting from the CD-ROM drive first. If the system finds a CD that is not bootable in the drive or finds a problem with the drive itself, it displays an error message. If it does not find a CD in the drive, the system tries to boot from the next device in the boot sequence list.

PXE

Selecting **PXE** (Preboot eXecution Environment) causes the system to boot from the integrated network interface controller (NIC) first. If a boot routine is not available from the network server, the system tries to boot from the next device in the boot sequence list.

Integrated Devices

Integrated Devices configures the devices integrated with the system board. Press <Enter> to configure these options.

Network Interface Controller

Network Interface Controller determines whether the integrated NIC is **On**, **Off**, or **On w/ PXE**. The default is **On w/ PXE**, which means that the NIC is enabled and set to boot the system remotely from a network server.

ACPI

ACPI controls the operation of the system's Advanced Configuration and Power Interface (ACPI) feature. The default is **Off**.

When **ACPI** is set to **On**, momentarily pressing the power button places the system in a power-saving mode. To turn the system off completely, press the power button for more than 4 seconds. When **ACPI** is set to **On**, interrupt request (IRQ) line 9 is not available for use by an expansion card.

When **ACPI** is set to **Off**, momentarily pressing the power button turns off the system completely. With this setting, IRQ9 is available for use by an expansion card.

System Security

System Security configures the password and chassis intrusion categories. Press <Enter> to configure these categories.

Chassis Intrusion

Chassis Intrusion displays the status of the system chassis intrusion monitor and can be set to **Enabled**, **Enabled-Silent**, or **Disabled**. The default is **Enabled**.

If the computer cover is removed while the intrusion monitor is set to **Enabled**, the setting changes to **Detected** and the following message is displayed during the boot routine at the next system start-up:

```
Alert! Cover was previously removed.
```

If the computer cover is removed while the intrusion monitor is set to **Enabled-Silent**, the setting changes to **Detected**, but the alert message is not displayed during the boot sequence at the next system start-up.

If the intrusion monitor is set to **Disabled**, no intrusion monitoring occurs and no messages are displayed.

To reset the **Detected** setting, enter the System Setup program during the system's power-on self-test (POST). At **Chassis Intrusion**, press any edit key to reset the setting, and then choose **Enabled**, **Enabled-Silent**, or **Disabled**.

*NOTE: When the setup password is enabled, the setup password is required to reset the **Chassis Intrusion** category.*

Using the System Password Feature

The following subsections update the procedures for using a system password.

Assigning a System Password

Before you can assign a system password, you must enter the System Setup program and check the **System Password** category.

When a system password is assigned, the **System Password** setting shown is **Enabled**. When the system password feature is disabled by a jumper setting on the system board, the setting shown is **Disabled by Jumper**. *You cannot change or enter a new system password if the **Disabled by Jumper** setting is displayed.* When a system password is not assigned, the **System Password** setting shown is **Not Enabled**.

To assign a system password, follow these steps:

1. Enter the System Setup program and verify that the **Password Status** setting is **Unlocked**.

   For instructions on changing this setting, see "Password Status" in Chapter 2 of your system's *Reference and Installation Guide*.

2. Highlight **System Security** and press <Enter>.

3. Highlight **System Password** and press <Enter>.

4. Type the desired system password in the **Enter Password** field and press <Enter>.

   You can use up to seven characters in your password.

As you press each character key (or the spacebar for a blank space), a placeholder appears in the field.

The password assignment operation recognizes keys by their location on the keyboard, without distinguishing between lowercase and uppercase characters. For example, if you have an *M* in your password, the system recognizes either *M* or *m* as correct.

Certain key combinations are not valid. If you enter one of these combinations, the system emits a beep.

To erase a character when entering your password, press <Backspace> or the left-arrow key.

NOTE: To escape from the field without assigning a system password, press <Esc>.

5. Type the desired system password in the **Confirm Password** field and press <Enter>.

   The system password is now assigned and is **Enabled**. You can exit the System Setup program and begin using your system. Password protection takes effect after the system reboots.

Using the Setup Password Feature

The following subsections update the procedures for using a setup password.

Assigning a Setup Password

A setup password can be assigned (or changed) only when **Setup Password** is set to **Not Enabled**. To assign a setup password, follow these steps:

1. Enter the System Setup program.
2. Highlight **System Security** and press <Enter>.
3. Highlight **Setup Password** and press <Enter>.
4. Type the desired setup password in the **Enter Password** field and press <Enter>.

   If a character is illegal for password use, the system emits a beep.

5. Type the desired setup password in the **Confirm Password** field and press <Enter>.

   The setup password is now assigned. The **Setup Password** setting changes from **Not Enabled** to **Enabled**.

NOTE: The setup password can be the same as the system password. If the two passwords are different, the setup password can be used as an alternate system password. However, the system password cannot be used in place of the setup password.

After you verify the password, the **Setup Password** setting changes to **Enabled**. The next time you enter the System Setup program, the system prompts you for the setup password.

A change to the **Setup Password** setting becomes effective immediately (rebooting the system is not required).

Operating with a Setup Password Enabled

If **Setup Password** is set to **Enabled**, you must enter the correct setup password before you can modify the majority of the System Setup categories.

When you start the System Setup program, the **System Setup** screen appears with **Setup Password** highlighted, prompting you to type the password.

If you do not enter the correct password, the system lets you view, but not modify, the System Setup screen, with one exception: If **Password Status** is set to **Unlocked**, you may modify the system password.

Disabling a Forgotten Password

If you forget your system or setup password, you cannot operate your system or change settings in the System Setup program, respectively, until you remove the computer cover, change the password jumper setting to disable the password(s), and erase the existing password(s).

To disable a forgotten password, follow these steps.

CAUTION: Before you remove the computer cover, turn off the computer and unplug it from the electrical outlet. See "Protecting Against Electrostatic Discharge" in the safety instructions at the front of your *Reference and Installation Guide*.

1. Remove the computer cover according to the instructions in "Removing the Computer Cover" in Chapter 5 in your *Reference and Installation Guide*.

2. Remove the jumper plug from the PSWD jumper to disable the password features.

   Refer to Figure 1-1 for the location of the password jumper (labeled "PSWD") on the system board.

3. Replace the computer cover.

4. Reconnect your computer and peripherals to their electrical outlets, and then turn them on.

   Booting your system with the PSWD jumper plug removed erases the existing password(s).

NOTE: After you remove and replace the cover, the chassis intrusion detector will cause the following message to be displayed at the next system start-up:

```
ALERT! Cover was previously removed.
```

5. To reset the chassis intrusion detector, enter the System Setup program and reset **Chassis Intrusion**.

   See "Chassis Intrusion" in Chapter 2 of your *Reference and Installation Guide* for instructions.

   NOTE: If a setup password has been assigned by someone else, contact your network administrator for information on resetting the chassis intrusion detector.

6. In the System Setup program, verify that the password is disabled. Continue with this procedure if you want to assign a new password.

NOTE: Before you assign a new system and/or setup password, you must replace the PSWD jumper plug.

CAUTION: Before you remove the computer cover, turn off the computer and unplug it from the electrical outlet. See "Protecting Against Electrostatic Discharge" in the safety instructions at the front of your *Reference and Installation Guide*.

7. Remove the computer cover according to the instructions in "Removing the Computer Cover" in Chapter 5 in your *Reference and Installation Guide*.

8. Replace the PSWD jumper plug.

9. Replace the computer cover, and then reconnect the computer and peripherals to their electrical outlets and turn them on.

   Booting with the PSWD jumper installed reenables the password features. When you enter the System Setup program, both password settings appear as **Not Enabled**, meaning that the password features are enabled but that no passwords have been assigned.

   NOTE: After you remove and replace the cover, the chassis intrusion detector will cause the following message to be displayed at the next system start-up:

   ```
   ALERT! Cover was previously removed.
   ```

10. To reset the chassis intrusion detector, enter the System Setup program and reset **Chassis Intrusion**.

    See "Chassis Intrusion" in Chapter 2 of your *Reference and Installation Guide* for instructions.

    NOTE: If a setup password has been assigned by someone else, contact your network administrator for information on resetting the chassis intrusion detector.

11. Assign a new system and/or setup password.

    To assign a new system password, see "Assigning a System Password" found earlier in this document. To assign a new setup password, see "Assigning a Setup Password" found earlier in this document.

Printed in the U.S.A.

DELL™

P/N 1271E Rev. A02

www.dell.com